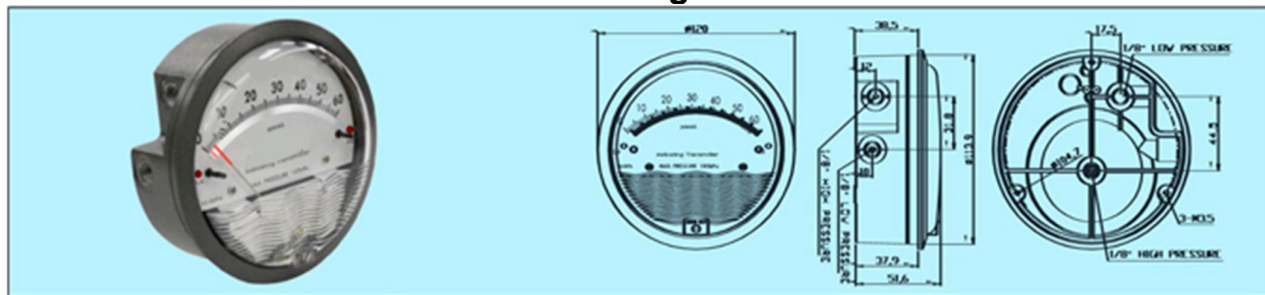


A2G/A2T/A2GT Differential Pressure Gauge/Switch/Transmitter



Applications & Features

- A2 series combines the A2000 pointer differential pressure gauge, switch and transmitter as ONE unit to provide a two-in-one or three-in-one multiple functions to measure, display, control and transfer positive, negative or differential pressure. It can apply to fan, blower, filter, furnace draft, orifice plates, various clean room, bio-safety cabinet, clean bench, industrial cleaner, medical & pharmaceutical & grain & food equipment, etc.
- The mechanical pointer gauge uses the technology and design of A2000 to provide accurate local display with simple, frictionless magnetic moving parts. The function is independent of the switch and transmitter, even if the power is off. The accuracy can be 2% FS
- The integral switch and transmitter use high-precision MEMS sensor and digital technology with accuracy up to $\pm 1\%$ FS which is independent of the mechanical part. The two switches can be flexibly set via touch keys. The transmitter has various outputs selectable.
- Multiple ranges and engineering units selectable
- The design resists shock, vibration and over pressures
- Ultra thin design with the flushed part is only 38.5mm, and the overall thickness is only 52.2mm
- Patented state of art wave shape decorative front cover
- Compatible with A2000 series installation with mirror scale overlay eliminating parallax reading error

Specifications

Service: Air and non-combustible compatible gases

Temperature Limits: -7 to 60°C (20 to 140°F)

Differential Pressure Gauge

Accuracy: $\pm 2\%$ FS ($\pm 3\%$ on 125Pa, $\pm 4\%$ on 60Pa) @ 21°C

Pressure Limits: -70 to 100 KPa

Zero adjustment: zero screw at the bottom of front cover

Differential Pressure Switch

Output: 2xSPST, for low and high limit control

Repeatability: $\pm 1\%$ FS

Dead band: 1% FS (or configurable)

Load: 3A-30VDC/250VAC

Power: 16~28VAC, 16~35VDC

High/low limit adjustment: via 3 touch keys

Alarm indication: two LED indicators

Zero reset: via 3 touch keys

Differential Pressure Transmitter

Output: 0-10V, 4-20mA (3 lines), RS485 selectable

Working Pressure: overload 10xFS, burst 15xFS

Accuracy: $\pm 1\%$ FS

Long-term stability: $\pm 0.5\%$ FS/Year

Temp. compensation: 0~50°C

Thermal effect: $< 0.05\%$ FS/°C (zero), $< 0.08\%$ FS/°C (FS)

Response time: < 5 s

Power: 16~28VAC/16~35VDC

Zero reset: via 3 touch keys

Housing: Die cast aluminum case and bezel, with PC cover

Scale: with mirror scale overlay eliminating parallax reading error

Protection: IP65

Size: 101.5mm (4") diameter dial face, 115.5 mm (4-9/16") dia. opening for flush mount

Electrical connection: cable on the back

Connections: 1/8" NPT female high and low pressure taps, duplicated, one pair side and one pair back

Mounting method: Flush or surface in vertical position

Weight: 500g

Approval: RoHS, CE

Standard accessory: Model A-S10, including two 1/8"NPT pipe plugs, two 1/8" NPT to 3/16" rubber tubing adapters and three flush mount adapters with screws

Other Accessories: A-S1/2/9/10/11/12/81, etc., sold separately, see details on Accessories

A2G Models

Model	A2G		DP gauge with switch
Range		xx	Range selection

A2T Models

Model	A2T		DP gauge with transmitter
Range		xx	Range selection
Output		1	0-10V
		2	4-20mA(3 wires)
		8	RS485/Modbus

A2GT Models

Model	A2GT		DP gauge with switch & transmitter
Range		xx	Range selection
Output		1	0-10V
		2	4-20mA(3 wires)
		8	RS485/Modbus

Ranges

Code	Range Pa	Code	Range in wc	Code	Range mm wc
01**	0~60	11**	0~0.25	21**	0~6
02*	0~125	12*	0~0.50	22*	0~10
03	0~250	13	0~1	23	0~25
04	0~500	14	0~2	24	0~50
Code	Range kPa			25	0~100
05	0~1	15	0~4	Code	Range cm wc
06	0~2	16	0~8	36	0~20
07	0~5	17	0~20	37	0~50
08	0~10	18	0~40		
Code	Range Pa				
0A**	-30~30	1A**	-0.125~0.125		
0B*	-60~60	1B*	-0.25~0.25*		
0C	-125~125	1C	-0.5~0.5		

Mechanical part pointer gauges' accuracy: **4%; *3%; Others 2%.

Electronic parts' (including switch and transmitter) accuracy: 1% FS, and independent of the mechanical part.

Options:

- Brushed 304 SS Bezel:** Corrosion resistant bezel, to order add suffix S.
- High Accuracy Calibration(only for mechanical part pointer gauge):** Calibrated to accuracy 2%/1.5%/1% respectively, with Calibration Certificate. To order add suffix H.



High accuracy calibration
Brushed SS bezel